

## To the fauna of the Noctuoidea of Tajikistan

(Lepidoptera)

by

STANISLAV K. KORB

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**Abstract:** In the present paper data about 84 species of Noctuoidea, collected by our expedition in Tajikistan in 2011, are given (Erebidae: 7 species; Nolidae: 1 species; Euteliidae: 1 species; Noctuidae: 75 species). 28 species are recorded from this territory for the first time.

**Резюме:** В настоящей работе приводятся сведения о 84 видах чешуекрылых ноктуологического комплекса, собранных нашей экспедицией в Таджикистане в 2011 году (Erebidae: 7 видов; Nolidae: 1 вид; Euteliidae: 1 вид; Noctuidae: 75 видов). 28 видов впервые приводятся для этой территории.

In 2011 (13<sup>th</sup>-26<sup>th</sup> July) my friends, and myself, we participated in an entomological expedition to the Tajik Republic (about this expedition see *Atalanta* 43: 169-172). Here we report about the Noctuoidea species collected during this trip.

The number of articles on the Noctuoidea fauna of Tajikistan is very low: GRUM-GRSHIMAILO (1890), FORSTER & ROSEN (1940), SHCHETKIN (1963, 1965, etc.), HACKER & PECKS (1990), LEHMANN et al. (1998).

Much more papers of the studied region do not exist, so the overall view (including zoogeography) of the Heterocera fauna is still very incomplete. Additional data can be extracted from numerous taxonomic papers (for example, in Esperiana, *Atalanta*, *Nota lepidopterologica*, etc.). We collected representatives of 4 families of the Noctuoidea-complex, 28 of them are here recorded from this area for the first time.

All photos of biotopes are made by the author from the places where the night trapping equipment exactly was mounted (coordinates of these places are in the list of the collecting points). All species have been identified or checked by O. N. PEKARSKY (Budapest, Hungary) and A. YU. MATOV (St.-Petersburg, Russia). The main part of the material is preserved in the author's collection, some material is also preserved in the collection of A. NIKOLAEV (Cherepovets, Vologda Province, Russia) and O. N. PEKARSKY (Budapest, Hungary). I am greatly indebted to O. N. PEKARSKY and A. YU. MATOV for their valuable help with determination of insects and to A. NIKOLAEV for the loan of material.

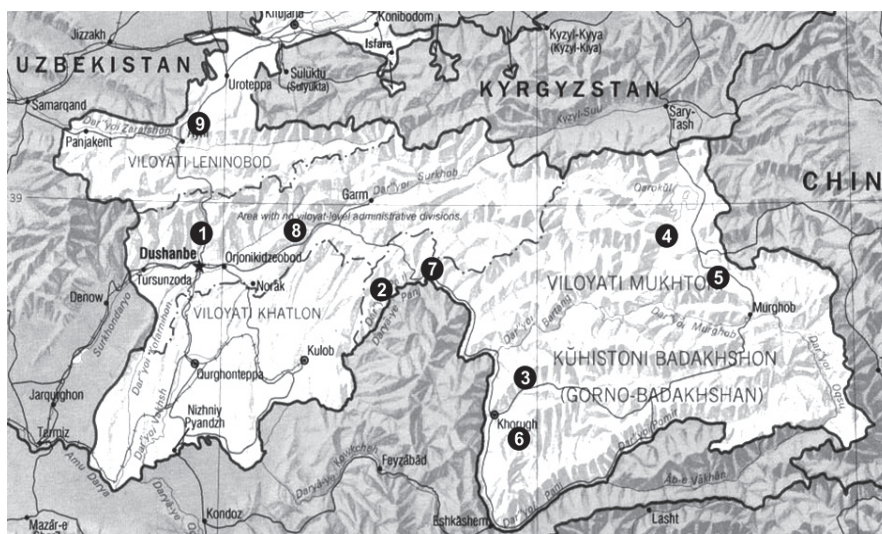


Fig 1: Map of the collecting points. See text.:

1. Tajikistan, Turkestansky Mts., near Shakhristan tunnel, 2793 m, 13.VII.2011 (N 39 31.236, E 68 33.444) (fig. 2).
2. Tajikistan, Darvazsky Mts., 10,45 km SW of Padkinov kishlak on Afghanistan - Tajikistan border (Pyandzh river), 1130 m, 15.VII.2011 (N 38 18.485, E 70 36.216) (fig. 3).
3. Tajikistan, Shugnansky Mts., 2,5 km SW of kishlak Vodzh, 2672 m, 16.07.2011 (N 37 41.887, E 71 55.821) (fig. 4).
4. Tajikistan, East Pamirs, Severnyi Tanymas Mts., 18,5 km SW of southern limit of Karakul lake, 3918 m, 18.VII.2011 (N 38 43.041, E 73 12.097) (fig. 5).
5. Tajikistan, Severo-Alichurskiy Mts., road to Murgab, 5,84 km SSW from Karasu, 3943 m, 19.VII.2011 (N 37 57.870, E 73 54.587) (fig. 6).
6. Tajikistan, Shakhdarinsky Mts., Vezdara river valley near Vezd kishlak, 2900-3800 m, 20.-22.VII.2011 (N 37 12.102, E 71 49.768) (fig. 7).
7. Tajikistan, Darvazsky Mts, 6,2 km S of kishlak Barou on Afghanistan-Tajikistan border (Pyandzh river), 1339 m, 23.VII.2011 (N38 26.621 E71 02.277) (fig. 8).
8. Tajikistan, Gissarsky Mts. near Obigarm settlement, 1408 m, 24.VII.2011 (N38 43.257 E69 41.013) (ночевка) (fig. 9).
9. Tajikistan, Turkestansky Mts., Shakhristan Pass, 12 km from summit, 2517 m, 26.07.2011 (N39 34.771 E68 34.828) (fig. 10).

# Systematic list of the collected species

Family Erebidae LEACH, 1815,

Subfamily Boletobiinae GROTE, 1895

*Eublemma conistrota* HAMPSON, 1910. 1 ♂, 6. New to Tajikistan.

*E. squalida* (STAUDINGER, 1878). 1 ♂, 6. New to Tajikistan.

Subfamily Erebiinae Leach, 1815

*Drasteria cailino* (LEFÈBVRE, 1827). 1 ♂, 5.

*D. sculpta* (PÜNGELER, 1904). 1 ♂, 2; 4 ♀♀, 6. New to Tajikistan.

*D. caucasica* (KOLENATI, 1846). 1 ♀, 3; 1 ♂, 1 ♀, 5.

*Dysgonia algira* (LINNAEUS, 1758). 1 ♂, 2.

Family Nolidae BRUAND, 1846

Subfamily Chloephorinae STANTON, 1859

*Arcyophora dentula* (LEDERER, 1870). 1 ♂, 2.

Family Euteliidae GROTE, 1882

Subfamily Metoponinae HERRICH-SCHÄFFER, 1851

*Tyta luctuosa* ([DENIS & SCHIFFERMÜLLER], 1775). 1 ♂, 2.

Family Noctuidae LATREILLE, 1809

Subfamily Plusiinae BOISDUVAL, 1828

*Euchalcia anthea* RONKAY, RONKAY & BEHOUNEK, 2008. 3 ♂♂, 6.

*E. shugnana* SHELJUZHKO, 1929. 1 ♂, 3.

*Pseudochalcia* cf. *inconspicua* (GRAESER, 1888). 1 ♂, 6. New to Tajikistan. This species was known only from "...the eastern regions of Tien Shan massif" (RONKAY et al., 2008: 49) and West Tian-Shan ("Mt. Bolshoy Chingan...") (HACKER & PECKS, 1990: 416).

*Autographa camptosema* (HAMPSON, 1913). 1 ♀, 2.

Subfamily Acronictinae HEINEMANN, 1859

*Acronicta aceris eleagni* ALPHERAKY, 1887. 3 ♂♂, 4 ♀♀, 3; 1 ♀, 5; 1 ♂, 6.

Subfamily Acontiinae GUENÉE, 1841

*Acontia lucida* (HUFNAGEL, 1766). 1 ♂, 1. New to Tajikistan.

Subfamily Cuculliinae HERRICH-SCHÄFFER, 1850

*Cucullia cineracea argyllacea* HACKER, RONKAY & RONKAY, 1990. 3 ♂♂, 6.

*Oncocnemis exacta* CHRISTOPH, 1887. 1 ♂, 5.

*O. strioligera* LEDERER, 1853. 1 ♂, 9.

Subfamily Heliothinae BOISDUVAL, 1828

*Pyrrhia umbra* (HUFNAGEL, 1766). 2 ♂♂, 1 ♀, 6. New to Tajikistan.

Subfamily Bryophilinae GUENÉE, 1852

*Cryphia maeonis* (LEDERER, 1865). 5 ♂♂, 8 ♀♀, 2; 1 ♀, 3; 1 ♂, 6. New to Tajikistan.

*C. miltophaea* (HAMPSON, 1908). 3 ♂♂, 1 ♀, 6. New to Tajikistan.

*C. sp. (bona?)*. 3 ♂♂, 6.

*C. rueckbeili* (BOURSIN, 1953). 3 ♂♂, 6 ♀♀, 2.

*C. algae* (FABRICIUS, 1775). 1 ♂, 6.

*C. felina* (EVERSMANN, 1852). 1 ♂, 5, 1 ♂, 6.

*C. sublitterata* FILIPJEV, 1931. 1 ♂, 6.

Subfamily Xyleninae GUENÉE, 1837

*Caradrina clavipalpis* (SCOPOLI, 1763). 1 ♀, 1.V.1991, Kugitang-Tau Mts.

*C. montana* (BREMER, 1864). 3 ♂♂, 6.

*C. terrea* FREYER, 1840. 1 ♂, 6.

*Hoplodrina levis* (STAUDINGER, 1888). 1 ♂, 5. New to Tajikistan.

*H. ambigua* ([DENIS & SCHIFFERMÜLLER], 1775). 1 ♂, 1 ♀, 2.

*Anthraxia turcomanica* (CHRISTOPH, 1893). 1 ♂, 7. New to Tajikistan.

*Phoebophilus amoenus* STAUDINGER, 1888. 3 ♂♂, 4 ♀♀, 6. New to Tajikistan.

*Calamia deliciosa* BOURSIN, 1957. 5 ♂♂, 6. New to Tajikistan.

*Apamea lateritia* (HUFNAGEL, 1766). 1 ♂, 1 ♀, 2; 1 ♂, 3 ♀♀, 6; 2 ♂♂, 3 ♀♀, 9.

*A. furva* ([DENIS & SCHIFFERMÜLLER], 1775). 1 ♂, 6.

*Resapamea hedeni* (GRAESER, [1889]). 1 ♂, 6. New to Tajikistan.

*Cosmia subtilis* STAUDINGER, 1888. 1 ♀, 2. New to Tajikistan.

*Bryopolia chamaeleon* (ALPHERAKY, 1887). 2 ♂♂, 3; 2 ♂♂, 5; 6 ♂♂, 1 ♀, 6.

*B. tenuicornis* (ALPHERAKY, 1887). 1 ♂, 5. New to Tajikistan. Quite rare species, "...the majority of the known localities is known from old collectings" (VARGA et al., 1990: 439).

*Bryoxena centralasiae* (STAUDINGER, 1882). 1 ♂, 6; 3 ♂♂, 9.

*B. constricta* RONKAY & VARGA, 1990. 1 ♂, 5; 1 ♂, 6.

*Auchmis deterrenta sericea* VARGA & RONKAY, 1991. 1 ♂, 9.

*Polymixis acharis* (Püngeler, 1901). 2 ♂♂, 3.

*P. roehrei* (BOURSIN, 1961). 1 ♂, 6.

*Mniotype adusta vicina* (ALPHERAKY 1882). 1 ♂, 6. New to Tajikistan.

*M. leucocyma* (HAMPSON, 1907). 1 ♂, 6. New to Tajikistan.

Subfamily Hadeninae GUENÉE, 1837

- Polia serratilinea spalax* (ALPHÉRAKY, 1887). 2 ♂♂, 2 ♀♀, 6.  
*P. enodata* (BANG-HAAS, 1912). 1 ♀, 3; 1 ♂, 6.  
*Conisania vidua* (STAUDINGER, 1888). 1 ♂, 6.  
*Mythimna ferrago caliginata* HREBLAY, 1999. 1 ♀, 2.  
*M. melania* (STAUDINGER, 1889). 1 ♂, 6. New to Tajikistan.  
*Hecatera dysodea* ([DENIS & SCHIFFERMÜLLER], 1775). 1 ♂, 5.  
*Hadena wiltshirei* (BRANDT, 1947). 1 ♂, 5.  
*Lasionycta orientalis* (ALPHÉRAKY, 1882). 2 ♂♂, 5 ♀♀, 2; 1 ♂, 3 ♀♀, 5; 4 ♂♂, 1 ♀, 6; 1 ♀, 9.

Subfamily Noctuinae LATREILLE, 1809

- Chersotis sordescens* (STAUDINGER, 1900). 1 ♂, 9. New to Tajikistan.  
*Rhyacia junonia* (STAUDINGER, 1881). 1 ♂, 9. New to Tajikistan.  
*Dichagyris stellans* (CORTI & DRAUDT, 1933). 1 ♂, 6.  
*D. vallesiaca venosa* KOZHANTSCHIKOV, 1930. 1 ♂, 6.  
*D. celebrata* (ALPHÉRAKY, 1897). 2 ♂♂, 5; 1 ♂, 1 ♀, 6.  
*D. elbursica* (DRAUDT, 1937). 1 ♂, 3; 1 ♂, 5; 3 ♂♂, 6. New to Tajikistan  
*D. candelisequa* ([DENIS & SCHIFFERMÜLLER], 1775). 1 ♀, 2.  
*D. unifica* (KOZHANTSCHIKOV, 1937). 1 ♂, 2; 2 ♂♂, 6.  
*D. improba* (STAUDINGER 1888). 1 ♂, 5; 2 ♂♂, 6.  
*D. humilis* (BOURSIN, 1940). 1 ♂, 6. New to Tajikistan.  
*D. disturbans* (PÜNGELER, 1914). 1 ♂, 6.  
*Trichosilia plumbea* (ALPHÉRAKY, 1887). 2 ♂♂, 3; 1 ♂, 5.  
*Euxoa conspicua* (HÜBNER, [1827]). 1 ♂, 9.  
*E. fallax* (EVERSMANN, 1854). 1 ♂, 5.  
*E. hilaris* (FREYER, 1838). 1 ♂, 5. New to Tajikistan.  
*E. hypochlora* BOURSIN, 1964. 1 ♂, 5. New to Tajikistan.  
*E. ochrogaster* (GUENÉE, 1852). 1 ♂, 6.  
*E. subconspicua* (STAUDINGER, 1888). 1 ♂, 6.  
*E. temera* (HÜBNER, [1808]). 1 ♂, 3.  
*E. privigna* PÜNGELER, 1906. 1 ♀, 6. New to Tajikistan.  
*Agrotis segetum* ([DENIS & SCHIFFERMÜLLER], 1775). 1 ♂, 2.  
*A. ipsilon* (HUFNAGEL, 1766). 1 ♂, 2; 1 ♀, 9.  
*Spaelotis deplorata* (STAUDINGER, 1896). 1 ♂, 2 ♀♀, 6.  
*S. demavendi* (WAGNER, 1937). 1 ♂, 3. New to Tajikistan.  
*Eurois occulta* (LINNAEUS, 1758). 2 ♂♂, 6.  
*Xestia c-nigrum* (LINNAEUS, 1758). 1 ♀, 2; 1 ♀, 5.  
*X. erschoffi* (STAUDINGER, 1896). 1 ♂, 6. New to Tajikistan.  
*Eugnorisma trigonica* (ALPHÉRAKY, 1882). 1 ♂, 2; 2 ♂♂, 3; 2 ♀♀, 6; 4 ♂♂, 9.  
*E. deleasma* BOURSIN, 1967. 1 ♂, 6. New to Tajikistan.  
*Eugraphe funkei* (PÜNGELER, 1901). 1 ♂, 6.

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Address of the author

STANISLAV K. KORB  
 a/ya 97 Nizhny Novgorod 603009  
 Russia





Fig. 2: Locality 1, Tajikistan, Turkestansky Mts., near Shakhristan tunnel, 2793 m.

Fig. 3: Locality 2, Tajikistan, Darvazsky Mts., 10,45 km SW of Padkinov kishlak on Afghanistan-Tajikistan border (Pyandzh river), 1130 m.

Fig. 4: Locality 3, Tajikistan, Shugnansky Mts., 2,5 km SW of kishlak Vodzh, 2672 m.

Fig. 5: Locality 4, Tajikistan, East Pamirs, Severnyi Tanyms Mts., 18,5 km SW of southern limit of Karakul lake, 3918 m.

Fig. 6: Locality 5, Tajikistan, Severo-Alichurskiy Mts., road to Murgab, 5,84 km SSW from Karasu, 3943 m.

Fig. 7: Locality 6, Tajikistan, Shakhdarinsky Mts., Vezdara river valley near Vezd kishlak, 3200 m.





Fig. 8: Locality 7, Tajikistan, Darvazsky Mts, 6,2 km S of kishlak Barou on Afghanistan-Tajikistan border (Pyandzh river), 1339 m.  
 Fig. 9: Locality 8, Tajikistan, Gissarsky Mts. near Obigarm settlement, 1408 m.  
 Fig. 10: Locality 9, Tajikistan, Turkestansky Mts., Shakhristan Pass, 12 km from summit, 2517 m.